The following items shall be incorporated with respect to specific site conditions, in an erosion & sedimentation control plan:

**NPDES Construction Stormwater General Permit NCG010000**

Designation on the plans where the 7 or 14 day ground stabilization requirements apply per Part II.E.1 of the permit.

Design of basins with one acre or more of drainage area for surface withdrawal as per Part II.B.8 of the permit.

**LOCATION INFORMATION**

- Project location & labeled vicinity map (roads, streets, landmarks)
- North arrow and scale
- Identify River Basin.
- Provide a copy of site located on applicable USGS quadrangle and NRCS Soils maps if it is in a River Basin with Riparian Buffer requirements.

**GENERAL SITE FEATURES (Plan elements)**

- Property lines & ownership ID for adjoining properties
- Proposed contours
- Limits of disturbed area (provide acreage total, delineate limits, and label).
- Existing contours (topographic lines)
- Planned & existing road locations & elevations, including temporary access roads
- Lot and/or building numbers
- Hydrogeologic features: rock outcrops, seeps, springs, wetland and their limits, streams, lakes, ponds, dams, etc. (include all required local or state buffer zones and any DWQ Riparian Buffer determinations)
- Easements and drainageways, particularly required for offsite affected areas. Include copies of any recorded easements and/or agreements with adjoining property owners.
- Profiles of streets, utilities, ditch lines, etc.

**STORMWATER CALCULATIONS**

Pre-construction runoff calculations for each outlet from the site (at peak discharge points). Be sure to provide all supporting data for the computation methods used (rainfall data for required storm events, time of concentration/storm duration, and runoff coefficients).

- Design calculations for peak discharges of runoff (including the construction phase & final runoff coefficients for the site)
- Design calcs for culverts and storm sewers (include HW, TW and outlet velocities)
- Discharge and velocity calculations for open channel and ditch flows (easement & rights-of-way)
- Design calcs for cross sections and method of stabilization for existing and planned channels (include temporary linings). Include appropriate permissible velocity and/or shear stress data.
- Design calcs and construction details for energy dissipaters below culvert and storm sewer outlets (include stone/material specs & apron dimensions). Avoid discharges on fall slopes.
- Design calcs and dimension of sediment basins (note current surface area and dewatering standards as well as diversion of runoff to the basins). Be sure that all surface drains, including ditches and berms, will have positive drainage to the basins.

**VEGETATIVE STABILIZATION**

- Area & acreage to be stabilized with vegetation
- Method of soil preparation
- Seed type & rates (temporary & permanent)
- Fertilizer type and rates
- Mulch type and rates (include mulch anchoring methods)

**NOTE:** Plan should include provisions for groundcover in accordance with NPDES Construction Stormwater General Permit NCG010000.

**FINANCIAL RESPONSIBILITY/OWNERSHIP FORM**

Completed, signed & notarized FR/O Form

Accurate application fee payable to NCDEQ ($65.00 per acre rounded up the next acre with no ceiling amount)

Certificate of assumed name, if the owner is a partnership

Copy of the most current Deed for the site. Please make sure the deed(s) and ownership information are consistent between the plan sheets, local records and this form.

Provide latitude & longitude (in decimal degrees) at the project entrance.

Two hard-copies of the plans (some regional offices require additional plans or multiple sizes; please contact the regional coordinator prior to such submittal.)

**NOTE:** For the Express Permitting Option, inquire at the local Regional Office for availability. Express Reviews are performed by appointment only.

**NARRATIVE AND CONSTRUCTION SEQUENCE**

Narrative describing the nature & purpose of the construction activity.

Construction sequence related to erosion and sediment control (including installation of critical measures prior to the initiation of the land-disturbing activity & removal of measures after areas they serve are permanently stabilized). Address all phases of construction and necessary practices associated with temporary stream bypasses and/or crossings.

Bid specifications related only to erosion control